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## Quality of Care and Outcomes Assessment

### PREDICTORS OF DUAL ANTIPLATELET THERAPY NON-ADHERENCE AFTER PCI: ONE-YEAR INSIGHTS FROM THE PARIS REGISTRY

Poster Contributions

Poster Sessions, Expo North

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**Background:** Demographic and socioclinical factors affect adherence to dual anti-platelet therapy (DAPT) after percutaneous coronary intervention (PCI). DAPT cessation has been shown to increase stent thrombosis risk, recurrent myocardial infarction, and death. We investigated correlates of DAPT non-adherence after PCI in a large, multinational registry.

**Method:** The PARIS (Patterns of Non-Adherence to Anti-Platelet Regimens in Stented Patients) registry is a multicenter, prospective observational study of PCI patients. Modes of non-adherence were physician-guided discontinuation, interruption (surgery), or disruption (bleeding or non-compliance). Independent variables were baseline demographics, comorbidities, and presentation. Predictors of non-adherence were identified using logistic regression. Model discrimination was assessed using receiver operating characteristic curve.

**Results:** Among 5,033 patients, the incidence of non-adherence was 12.5% at 1-year. With multivariable adjustment, independent correlates of non-adherence were older, female gender, DES use, prior CABG, current smoking, and enrollment in the US (Table 1). This model yielded moderate discrimination for non-adherence by C-statistics of 0.67.

**Conclusion:** In this multinational registry several clinical variables identified subsequent non-adherence at 1-year. This model may help identify patients who are more likely to stop DAPT and aid in risk prediction and clinical decisions at the time of PCI.

**Table 1. Multivariable Analysis**

Variable	Odds Ratio (95% Confidence Interval)	P Value
Age (2 <sup>nd</sup> Quartile)	1.28 (0.99-1.65)	0.050
Age (3 <sup>rd</sup> Quartile)	1.38 (1.06-1.78)	0.014
Age (4 <sup>th</sup> Quartile)	1.92 (1.48-2.49)	0.000
Male Gender	0.77 (0.64-0.93)	0.009
Prior CABG	0.72 (0.56-0.94)	0.019
DES use	0.56 (0.45-0.68)	0.000
Current Cigarette Smoking	1.33 (1.06-1.67)	0.013
Region (Europe vs US)	0.23 (0.17-0.31)	0.000